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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/649,961	08/26/2003	Yukio Eda	03509/LH	7088
1933 7	7590 07/27/2004		EXAMINER	
FRISHAUF, HOLTZ, GOODMAN & CHICK, PC 767 THIRD AVENUE			SOHN, SEUNG C	
25TH FLOOR NEW YORK, NY 10017-2023		ART UNIT	PAPER NUMBER	
			2878	· ·
			DATE MAILED: 07/27/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	Min			
·	10/649,961	EDA, YUKIO	v			
Office Action Summary	Examiner	Art Unit				
	Seung C. Sohn	2878				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence addi	ress			
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailinearned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from the application to become ABANDONE	nely filed  s will be considered timely. the mailing date of this com D (35 U.S.C. § 133).	nmunication.			
Status						
1) Responsive to communication(s) filed on						
	action is non-final.					
	·					
Disposition of Claims						
4) ☐ Claim(s) 1-6 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-6 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o						
Application Papers						
9) The specification is objected to by the Examiner.						
10) $\boxtimes$ The drawing(s) filed on <u>26 August 2003</u> is/are: a) $\square$ accepted or b) $\boxtimes$ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 0803,0504.	4)  Interview Summary Paper No(s)/Mail Da 5)  Notice of Informal P	ate	52)			
1 4001 140(3)1111all Date 0000,0004.	6)					

#### **DETAILED ACTION**

#### **Drawings**

1. The drawings are objected to because of following informalities:

On **Fig. 16**, step S1, ""X direction" should be changed to -- Z direction -- to be consistent with specification, step S4, "Charge NA large" should be changed to – Change NA small -- or the like, and step S6 does not have any meaning since it is followed by S7 whether the answer is Yes or No.

Corrected drawing sheets are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

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#### Claim Objections

2. Claims 1-2 are objected to because of the following informalities:

The acronym "NA" should be spelled out when introduced in independent claims for the first time. Appropriate correction is required.

### Claim Rejections - 35 USC § 112

- 3. The following is a quotation of the second paragraph of 35 U.S.C. 112:
  The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 4. Claims 1-6 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. On claims 1-2, line 10, "the variable diaphragm" lacks antecedent basis. On claim 1, the last line, "the focusing position" lacks antecedent basis. On claim 2, line 2, "the sample" lacks antecedent basis. The terms "low magnification" and "high NA" in claim 3 are relative terms which renders the claim indefinite. Those terms are not defined by the claim, the specification does not provide a standard for ascertaining the requisite degree, and one of ordinary skill in the art would not be reasonably apprised of the scope of the invention.

## Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

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A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

6. Claims 1-6 are rejected under 35 U.S.C. 102(b) as being anticipated by Ban et al. (Patent No. JP 06-034345).

Ban et al. discloses steps of scanning the sample (1, i.e., analyte) with light from a light source (6) which passed a confocal pattern while moving one of a sample and an objective lens (2) along the direction of an optical axis at a predetermined sampling interval; acquiring two or more sectioning images by converting light from the sample which penetrates the confocal pattern through the objective lens by the photoelectric conversion means (5, i.e., CCD); obtaining a focusing position according to a predetermined function based on the plurality of sectioning images taken by the photoelectric conversion means; changing an opening diameter of the variable diaphragm (3, i.e., adjustable aperture diaphragm) arranged at the pupil position of the objective lens or a conjugated position to the pupil position thereof to reduce a NA of the objective lens when focusing is not obtained and repeating an operation of taking two or more sectioning images by the photoelectric conversion means and obtaining the focusing position; two or more sectioning images are taken without changing the predetermined sampling interval when the NA of the objective lens is changed; an operation to which the focusing position is obtained is repeated until three or more sectioning images are acquired; and whether the sectioning image uses data of a part where disorder is caused by an aberration of the objective lens is judged and the

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sectioning image is acquired by reducing the NA of the objective lens when the disordered data is used (Paragraphs 0010 – 0015).

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Seung C. Sohn whose telephone number is (571) 272-2446. The examiner can normally be reached on Monday through Friday from 8:30 am to 5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Porta can be reached on (571) 272-2444. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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